

Amendments to the Claims:

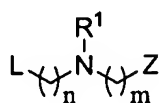
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

We claim:

Claims 1-27 (cancelled).

Claim 28 (original). A compound represented by C:



C

wherein, independently for each occurrence,

Z is thioalkyl, carboxylate, 2-(carboxy)aryl, 2-(carboxy)heteroaryl, 2-(hydroxy)aryl, 2-(hydroxy)heteroaryl, 2-(thiol)aryl, or 2-(thiol)heteroaryl; and

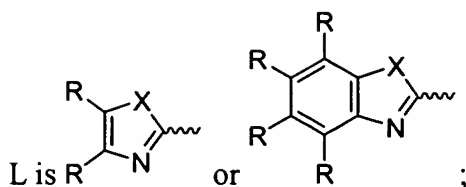
R¹ is H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical;

R₈₀ is carboxaldehyde, carboxylate, carboxamido, alkoxy carbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or a ligand for a G-protein-coupled receptor;

d is an integer in the range 0 to 12 inclusive;

m is an integer in the range 0 to 6 inclusive;

n is an integer in the range 0 to 6 inclusive;



X is -N(R²)-, -O-, or -S-;

R is selected from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxy, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, and -(CH₂)_d-R₈₀; and

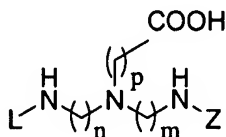
R² is hydrogen or a lipophilic group.

Claim 29 (original). The compound of claim 28, wherein said compound is complexed with a radionuclide.

Claim 30 (original). The compound of claim 28, wherein said compound is complexed with a radionuclide, wherein said radionuclide is technetium or rhenium.

Claims 31-53 (cancelled).

Claim 54 (original). A compound represented by **E**:

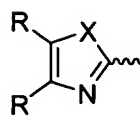


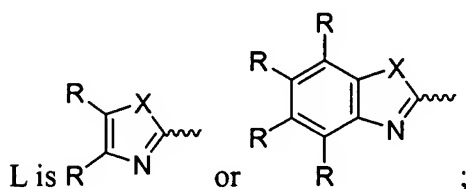
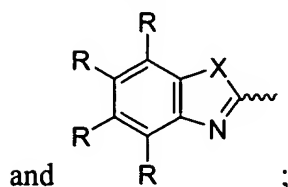
wherein, independently for each occurrence,

m is an integer in the range 0 to 6 inclusive;

n is an integer in the range 0 to 6 inclusive;

p is an integer in the range of 1 to 10 inclusive;

Z is selected from the group consisting of $-\text{CH}_2\text{COOH}$, alkyl, aryl, aralkyl,  R



each instance of X is $-\text{N}(\text{R}^2)-$, $-\text{O}-$, or $-\text{S}-$;

R^2 is hydrogen or a lipophilic group;

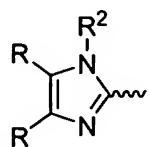
R is selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxyl, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, and $-(\text{CH}_2)_d-\text{R}_{80}$;

R_{80} is carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or a ligand for a G-protein-coupled receptor; and

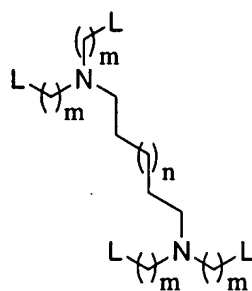
d is an integer in the range 0 to 12 inclusive.

Claim 55 (original). The compound of claim 54, wherein said compound is complexed with a radionuclide.

Claim 56 (original). The compound of claim 54, wherein said compound is complexed with a radionuclide, wherein said radionuclide is technetium or rhenium.

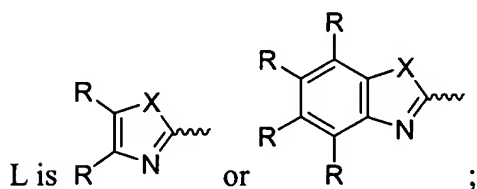
Claim 57 (original). The compound of claim 54, wherein L is ; R is hydrogen; R² is hydrogen; and Z is alkyl.

Claim 58 (original). A compound of formula F:



F

wherein, independently for each occurrence,



X is -N(R²)-, -O-, or -S-;

R is halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxyl, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, or -(CH₂)_d-R₈₀;

R₈₀ is carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor;

R₂ is H or a lipophilic group;

d is an integer in the range 0 to 12 inclusive;

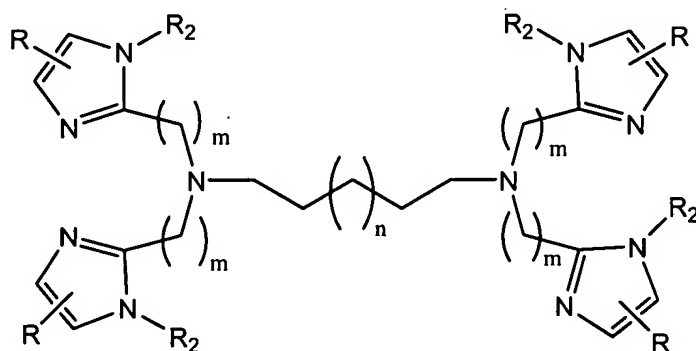
m is an integer in the range 0 to 6 inclusive; and

n is an integer in the range 0 to 6 inclusive.

Claim 59 (original). The compound of claim 58, wherein the compound is complexed with a radionuclide.

Claim 60 (original). The compound of claim 58, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 61 (original). A compound of formula G:



G

wherein, independently for each occurrence,

R is absent or present 1 or 2 times;

R is halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxyl, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl,

arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, or $-(CH_2)_d-R_{80}$;

R_{80} is carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor;

R_2 is H or a lipophilic group;

d is an integer in the range 0 to 12 inclusive;

m is an integer in the range 0 to 6 inclusive; and

n is an integer in the range 0 to 6 inclusive.

Claim 62 (original). The compound of claim 61, wherein the compound is complexed with a radionuclide.

Claim 63 (original). The compound of claim 61, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 64 (original). The compound of claim 61, wherein m is 1.

Claim 65 (original). The compound of claim 61, wherein n is 1.

Claim 66 (original). The compound of claim 61, wherein m is 1; and n is 1.

Claim 67 (original). The compound of claim 61, wherein R is absent.

Claim 68 (original). The compound of claim 61, wherein R_2 is a lipophilic group.

Claim 69 (original). The compound of claim 61, wherein R_2 is an ether, aralkyl, or alkylaryl.

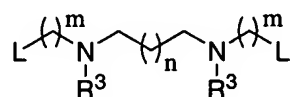
Claim 70 (original). The compound of claim 61, wherein R is absent; and R_2 is an ether, aralkyl, or alkylaryl.

Claim 71 (original). The compound of claim 61, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl.

Claim 72 (original). The compound of claim 61, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein the compound is complexed with a radionuclide.

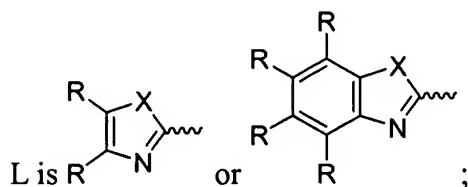
Claim 73 (original). The compound of claim 61, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein the compound is complexed with a radionuclide, wherein said radionuclide is technetium or rhenium.

Claim 74 (original). A compound of formula H:



H

wherein, independently for each occurrence,



X is -N(R²)-, -O-, or -S-;

R is halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxy, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, or -(CH₂)_d-R₈₀;

R₈₀ is independently for each occurrence carboxaldehyde, carboxylate, carboxamido, alkoxy carbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl,

heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor;

R₂ is H or a lipophilic group;

R₃ is a moiety comprising a neutral or anionic Lewis base, H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical;

d is an integer in the range 0 to 12 inclusive;

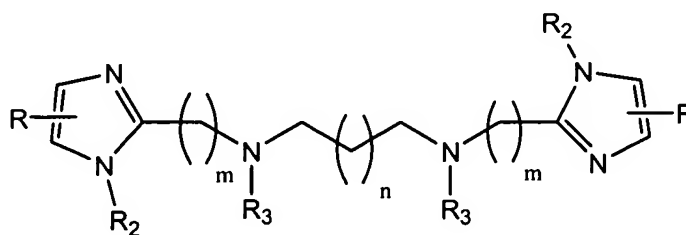
m is an integer in the range 0 to 6 inclusive; and

n is an integer in the range 0 to 6 inclusive.

Claim 75 (original). The compound of claim 74, wherein the compound is complexed with a radionuclide.

Claim 76 (original). The compound of claim 74, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 77 (original). A compound of formula I:



I

wherein, independently for each occurrence,

R is absent or present 1 or 2 times;

R is halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxyl, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, or $-(CH_2)_d-R_{80}$;

R_{80} is carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor;

R_2 is H or a lipophilic group;

R_3 is a moiety comprising a neutral or anionic Lewis base, H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, $-CO_2H$, $-(CH_2)_d-R_{80}$, or an amino acid radical;

d is an integer in the range 0 to 12 inclusive;

m is an integer in the range 0 to 6 inclusive; and

n is an integer in the range 0 to 6 inclusive.

Claim 78 (original). The compound of claim 77, wherein the compound is complexed with a radionuclide.

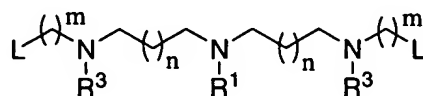
Claim 79 (original). The compound of claim 77, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 80 (original). The compound of claim 77, wherein m is 1.

- Claim 81 (original). The compound of claim 77, wherein n is 1.
- Claim 82 (original). The compound of claim 77, wherein m is 1; and n is 1.
- Claim 83 (original). The compound of claim 77, wherein R is absent.
- Claim 84 (original). The compound of claim 77, wherein R₂ is a lipophilic group.
- Claim 85 (original). The compound of claim 77, wherein R₂ is an ether, aralkyl, or alkylaryl.
- Claim 86 (original). The compound of claim 77, wherein R₃ is a moiety comprising an anionic Lewis base.
- Claim 87 (original). The compound of claim 77, wherein R₃ is a carboxylate, thiolate, or phenolate.
- Claim 88 (original). The compound of claim 77, wherein R is absent; and R₂ is an ether, aralkyl, or alkylaryl.
- Claim 89 (original). The compound of claim 77, wherein R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate.
- Claim 90 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl.
- Claim 91 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate.
- Claim 92 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein said compound is complexed with a radionuclide.
- Claim 93 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate; wherein the compound is complexed with a radionuclide.
- Claim 94 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 95 (original). The compound of claim 77, wherein m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 96 (original). A compound of formula J:

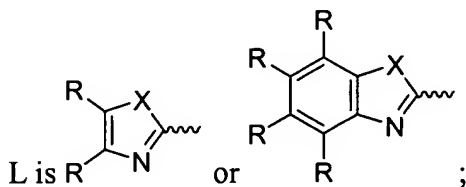


J

wherein, independently for each occurrence,

n is an integer in the range 0 to 6 inclusive;

m is an integer in the range 0 to 6 inclusive;



X is -N(R²)-, -O-, or -S-;

R₁ is H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical;

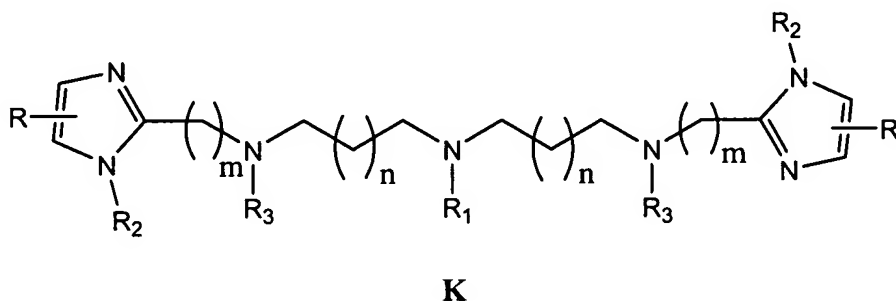
R₃ is a moiety comprising a neutral or anionic Lewis base, H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical; and

R₈₀ represents independently for each occurrence carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor.

Claim 97 (original). A compound of formula 96, wherein the compound is complexed with a radionuclide.

Claim 98 (original). The compound of claim 96, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 99 (original). A compound of formula K:



wherein, independently for each occurrence,

R is absent or present 1 or 2 times;

R is halogen, alkyl, alkenyl, alkynyl, hydroxyl, alkoxyl, acyl, acyloxy, acylamino, silyloxy, amino, nitro, sulfhydryl, alkylthio, imino, amido, phosphoryl, phosphonate, phosphine, carbonyl, carboxyl, carboxamide, anhydride, silyl, thioalkyl, alkylsulfonyl, arylsulfonyl, selenoalkyl, ketone, aldehyde, ester, heteroalkyl, cyano, guanidine, amidine, acetal, ketal, amine oxide, aryl, heteroaryl, aralkyl, heteroaralkyl, azido, aziridine, carbamoyl, epoxide, hydroxamic acid, imide, oxime, sulfonamide, thioamide, thiocarbamate, urea, thiourea, or $-(CH_2)_d-R_{80}$;

R₈₀ is carboxaldehyde, carboxylate, carboxamido, alkoxycarbonyl, aryloxy carbonyl, ammonium, aryl, heteroaryl, cycloalkyl, cycloalkenyl, heterocyclyl, polycyclyl, amino

acid, peptide, saccharide, ribonucleic acid, (deoxy)ribonucleic acid, or ligand for a G-protein-coupled receptor;

R₁ is H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical;

R₂ is H or a lipophilic group;

R₃ is a moiety comprising a neutral or anionic Lewis base, H, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, thioalkyl, alkenyl, alkynyl, aryl, heteroaryl, aralkyl, heteroaralkyl, acyl, aminoacyl, hydroxyacyl, thioacyl, (amino)alkoxycarbonyl, (hydroxy)alkoxycarbonyl, (amino)alkylaminocarbonyl, (hydroxy)alkylaminocarbonyl, -CO₂H, -(CH₂)_d-R₈₀, or an amino acid radical;

d is an integer in the range 0 to 12 inclusive;

m is an integer in the range 0 to 6 inclusive; and

n is an integer in the range 0 to 6 inclusive.

Claim 100 (original). A compound of formula 99, wherein the compound is complexed with a radionuclide.

Claim 101 (original). The compound of claim 99, wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 102 (original). The compound of claim 99, wherein m is 1.

Claim 103 (original). The compound of claim 99, wherein n is 1.

Claim 104 (original). The compound of claim 99, wherein m is 1; and n is 1.

Claim 105 (original). The compound of claim 99, wherein R is absent.

Claim 106 (original). The compound of claim 99, wherein R₂ is a lipophilic group.

Claim 107 (original). The compound of claim 99, wherein R_2 is an ether, aralkyl, or alkylaryl.

Claim 108 (original). The compound of claim 99, wherein R_3 is a moiety comprising an anionic Lewis base.

Claim 109 (original). The compound of claim 99, wherein R_3 is a carboxylate, thiolate, or phenolate.

Claim 110 (original). The compound of claim 99, wherein R is absent; and R_2 is an ether, aralkyl, or alkylaryl.

Claim 111 (original). The compound of claim 99, wherein R is absent; R_2 is an ether, aralkyl, or alkylaryl; and R_3 is a carboxylate, thiolate, or phenolate.

Claim 112 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; and R_2 is an ether, aralkyl, or alkylaryl.

Claim 113 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R_2 is an ether, aralkyl, or alkylaryl; and R_3 is a carboxylate, thiolate, or phenolate.

Claim 114 (original). The compound of claim 99, wherein R_1 is $-(CH_2)_d-R_{80}$.

Claim 115 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R_2 is an ether, aralkyl, or alkylaryl; and R_1 is $-(CH_2)_d-R_{80}$.

Claim 116 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R_2 is an ether, aralkyl, or alkylaryl; R_3 is a carboxylate, thiolate, or phenolate; and R_1 is $-(CH_2)_d-R_{80}$.

Claim 117 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R_2 is an ether, aralkyl, or alkylaryl; and R_1 is $-(CH_2)_d-R_{80}$; wherein the compound is complexed with a radionuclide.

Claim 118 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R_2 is an ether, aralkyl, or alkylaryl; R_3 is a carboxylate, thiolate, or phenolate; and R_1 is $-(CH_2)_d-R_{80}$; wherein the compound is complexed with a radionuclide.

Claim 119 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₁ is -(CH₂)_d-R₈₀; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 120 (original). The compound of claim 99, wherein m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; R₃ is a carboxylate, thiolate, or phenolate; and R₁ is -(CH₂)_d-R₈₀; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 121 (original). The compound of claim 99, wherein R₁ is an amino acid radical.

Claim 122 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; and n is 1.

Claim 123 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl.

Claim 124 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate.

Claim 125 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein the compound is complexed with a radionuclide.

Claim 126 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or phenolate; wherein the compound is complexed with a radionuclide.

Claim 127 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; and R₂ is an ether, aralkyl, or alkylaryl; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 128 (original). The compound of claim 99, wherein R₁ is an amino acid radical; m is 1; n is 1; R is absent; R₂ is an ether, aralkyl, or alkylaryl; and R₃ is a carboxylate, thiolate, or

phenolate; wherein the compound is complexed with a radionuclide, wherein the radionuclide is technetium or rhenium.

Claim 129 (original). The compound of claim 99, wherein the amino acid radical is $-\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$.

Claim 130 (original). The compound of claim 99, wherein the amino acid radical is $-\text{CH}(\text{CO}_2\text{H})\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$.

Claim 131 (original). The compound of claim 99, wherein the amino acid radical is $-\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$.

Claim 132 (original). The compound of claim 99, wherein the amino acid radical is $-\text{CH}(\text{CO}_2\text{H})(\text{CH}_2)_x\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$, wherein x is an integer from 3 to 9 inclusively.

Claim 133 (currently amended). A formulation, comprising a compound according to any of claims ~~1-132~~ 28, 54, 58, 61, 74, 77, 96, 99; and a pharmaceutically acceptable excipient.

Claim 134 (currently amended). A method of imaging a region in a patient, comprising the steps of: administering to a patient a diagnostically effective amount of a compound of claim ~~2, 3, 5, 6, 17, 18, 22, 23, 29, 30, 32, 33, 43, 44, 48, 49, 55, 56, 59, 60, 62, 63, 72, 73, 75, 76, 78, 79, 92-95, 97, 98, 100, 101, 117-120, or 125-128~~; and obtaining an image of said region of said patient.

Claim 135 (original). The method of claim 134, wherein said region of said patient is the head or thorax.

Claim 136 (currently amended). A method of preparing a peptide conjugate incorporating a compound of claim ~~19-27, 45-53 or~~ 121-132, wherein the peptide conjugate is prepared using solid phase synthetic techniques.